

ABSTRACT

An integrated conventional air conditioning system for use in trucks having an auxiliary power source to drive the compressor when the main engine is not operating. The compressor has a single shaft with a clutch engagable pulley coupled thereto and a belt-driven pulley mounted thereon. The clutch engagable pulley is rotatable by the main engine and the pulley is operable to drive the shaft independently of the clutch engagable pulley when the main engine is not operating. An electric motor is mounted to and mechanically linked to the air conditioner compressor. The electric motor has a second clutch engagable pulley operatively coupled thereto wherein the second clutch engagable pulley is rotatable when the electric motor is operating. The second clutch engagable pulley is coupled to the belt-driven pulley mounted on the shaft. A means for is provided for selectively and independently engaging the first clutch engagable pulley and the second clutch engagable pulley for operation of the air conditioner compressor. An auxiliary power plant provides power to the electric motor.

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